



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 10

1200 Sixth Avenue
Seattle, WA 98101

Date: October 26, 2010

To: Kathy Parker, OSC, U.S. Environmental Protection Agency Region 10, Seattle, WA
Cc: Sheila Fleming, REU Unit Manager, U.S. Environmental Protection Agency Region 10, Seattle, WA
From: Jeanmarie Zodrow, Toxicologist, U.S. Environmental Protection Agency Region 10, Seattle, WA

Subject: Memo on Ecological Risks to SVOC contaminants at Bremerton Gas Works

Thank you for the opportunity to review the data for the Bremerton Gas Works pipeline spill. I have reviewed the data and compared the data to ecological screening level benchmarks for sediment. While there are not screening level benchmarks for all of the SVOCs that were sampled at the location, there were benchmarks for half of the 65 SVOC contaminants for which samples were taken. For the majority of the samples, the detection limit was significantly higher than the ecological screening levels. There were a number of PAH compounds which were measured above the detection limit. The potential risk to the ecological receptor was determined by dividing the sample concentration for those compounds with concentrations above the detection limit by the screening level. Level 1 includes sample sites with risks between 10-30 fold higher than the screening levels, Level 2 includes sample sites with risks between 10-100 fold higher than the screening levels, Level 3 includes sample sites with risks over 100 fold higher than the screening levels. While Level 1 sample sites are close to detection limits, Level 2 sample sites are more likely to pose risk to ecological species and Level 3 sample sites are likely to pose significant risks to ecological species.

Level 1: GL01E02, GL01E01, GL01W01, GL02E01, GL01E02, GL03E03, GL02W02, GL03E02, GL04E03, GL04E04, GL05E01, GL05E03, GL06E01, GL06E03, GL06W01,

Level 2: GL02W01, GL03E01, GL03W02, GL04E01, GL04E02, GL04W03, GL05W02, GL06EE02 and GL06W02

Level 3: GL03W01, GL04W01, GL04W02, GL05E02, GL05W01, GL05W03, GL06W03

Feel free to contact me if you have any questions at 206-303-8465 or zodrow.jean@epa.gov.

Sincerely,

Jeanmarie Zodrow, Toxicologist
U.S. Environmental Protection Agency Region 10
Seattle, WA